

N:\ACAD\11444\CAD\PHASE II\11444 - FIG-4.5 - SOIL VAPOR LOCATION & CONCENTRATION PLAN.DWG 10/30/20 03:48:50PM jenny LAYOUT:FIG-4.5

SAMPLE ID:	SV-11
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	2.36
Ethanol	89.7
Acetone	161
Isopropanol	30
Tertiary butyl Alcohol	4.58
Carbon disulfide	2.8
2-Butanone	38.9
Tetrahydrofuran	7.17
n-Hexane	560
Benzene	6.39
Cyclohexane	6.51
2,2,4-Trimethylpentane	21.1
Heptane	32.5
cis-1,3-Dichloropropene	ND
4-Methyl-2-pentanone	4.47
Toluene	334
2-Hexanone	11.2
Tetrachloroethene	21.8
Ethylbenzene	6.56
p/m-Xylene	20.1
o-Xylene	7.51
4-Ethyltoluene	ND
1,2,4-Trimethylbenzene	10.3
1,3,5-Trimethylbenzene	2.5

SAMPLE ID:	SV-7
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
VOLATILE ORGANICS IN AIR	
Dichlorodifluoromethane	3.48
Ethanol	24.3
Acetone	63.9
Trichlorofluoromethane	16.3
Isopropanol	3.71
Tertiary butyl Alcohol	2.76
Carbon disulfide	41.7
2-Butanone	263
Chloroform	2.77
Tetrahydrofuran	8.65
n-Hexane	4.97
Benzene	5.46
Cyclohexane	1.28
Trichloroethene	8.65
2,2,4-Trimethylpentane	13.6
Heptane	3.61
Toluene	20.9
2-Hexanone	41
Tetrachloroethene	469
Ethylbenzene	13.7
p/m-Xylene	55.6
Styrene	1.49
o-Xylene	27.4
4-Ethyltoluene	5.8
1,2,4-Trimethylbenzene	21.5
1,3,5-Trimethylbenzene	14

SAMPLE ID:	AMBIENT-1
SAMPLE MATRIX:	AIR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	1.91
Chloromethane	1.05
Ethanol	70.3
Acetone	406
Trichlorofluoromethane	1.33
Isopropanol	49.4
2-Butanone	1.48
Tetrahydrofuran	20.9
n-Hexane	254
Benzene	8.11
Cyclohexane	3.82
2,2,4-Trimethylpentane	15.2
Heptane	71.7
Toluene	588
Ethylbenzene	9.43
p/m-Xylene	34.5
o-Xylene	9.99
4-Ethyltoluene	1.42
1,2,4-Trimethylbenzene	11.4
1,3,5-Trimethylbenzene	1.94

SAMPLE ID:	AMBIENT-2
SAMPLE MATRIX:	AIR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	1.46
Chloromethane	0.76
Ethanol	22.8
Acetone	74.8
Isopropanol	7.74
2-Butanone	10.1
Tetrahydrofuran	3.19
n-Hexane	48.3
Benzene	2.03
Cyclohexane	0.819
2,2,4-Trimethylpentane	3.07
Heptane	10.5
Toluene	116
Ethylbenzene	1.8
p/m-Xylene	6.86
o-Xylene	2.05
1,2,4-Trimethylbenzene	2.24
1,3,5-Trimethylbenzene	0.403

SAMPLE ID:	SV-12
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Ethanol	132
Acetone	271
Isopropanol	57.3
Carbon disulfide	3.06
2-Butanone	25.7
Chloroform	5.88
Tetrahydrofuran	8.7
n-Hexane	1110
Benzene	5.97
Cyclohexane	5.95
2,2,4-Trimethylpentane	12.3
Heptane	31.4
Toluene	369
Tetrachloroethene	7.39
Ethylbenzene	4.73
p/m-Xylene	16.4
o-Xylene	6.56
1,2,4-Trimethylbenzene	8.9
1,3,5-Trimethylbenzene	2.19

SAMPLE ID:	SV-6
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	14.1
Freon-114	58.4
Ethanol	46.2
Acetone	162
Carbon disulfide	65.1
2-Butanone	608
Chloroform	16.5
n-Hexane	11.5
Benzene	3.15
2,2,4-Trimethylpentane	6.89
Heptane	7.21
Toluene	27.5
2-Hexanone	96.6
Tetrachloroethene	53
Ethylbenzene	10.1
o-Xylene	14.8
4-Ethyltoluene	ND
1,2,4-Trimethylbenzene	16.9
1,3,5-Trimethylbenzene	4.4

SAMPLE ID:	SV-5
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	17.5
Freon-114	64.4
Ethanol	37.7
Acetone	120
Carbon disulfide	5.92
2-Butanone	501
n-Hexane	3.98
Heptane	2.69
Toluene	12.7
2-Hexanone	72.5
Tetrachloroethene	41
Ethylbenzene	6.34
p/m-Xylene	24.9
o-Xylene	12
1,2,4-Trimethylbenzene	13.2
1,3,5-Trimethylbenzene	3.81

SAMPLE ID:	SV-4
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Ethanol	580
Acetone	1640
Isopropanol	1130
2-Butanone	3780
cis-1,2-Dichloroethene	ND
2-Hexanone	68.4

SAMPLE ID:	AMBIENT-3
SAMPLE MATRIX:	AIR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	1.52
Chloromethane	0.869
Ethanol	9.82
Acetone	5.65
Isopropanol	1.84
Toluene	0.927

SAMPLE ID:	SV-1
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	6.72
Ethanol	80.8
Acetone	299
Carbon disulfide	9.31
2-Butanone	1160
n-Hexane	4.9
Toluene	9.87
2-Hexanone	95.9
Tetrachloroethene	45.6
p/m-Xylene	17.5
o-Xylene	10.9
1,2,4-Trimethylbenzene	15.8
1,3,5-Trimethylbenzene	3.96

SAMPLE ID:	SV-3
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	2.31
Chloromethane	1.03
Ethanol	21.5
Acetone	85.8
Trichlorofluoromethane	2.06
Carbon disulfide	18.1
2-Butanone	324
Chloroform	2.78
n-Hexane	3.13
Benzene	1.91
Heptane	1.7
Toluene	11.8
2-Hexanone	61.5
Tetrachloroethene	28.1
Ethylbenzene	4.95
o-Xylene	9.9
4-Ethyltoluene	2.9
1,2,4-Trimethylbenzene	15.9
1,3,5-Trimethylbenzene	3.87

SAMPLE ID:	SV-2
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	6.28
Freon-114	22.2
Ethanol	72.4
Acetone	213
Carbon disulfide	7.04
2-Butanone	770
Toluene	6.14
2-Hexanone	106
Tetrachloroethene	23.5
Ethylbenzene	4.23
p/m-Xylene	15.8
1,1,2,2-Tetrachloroethane	18.7
o-Xylene	9.47
1,2,4-Trimethylbenzene	15.4
1,3,5-Trimethylbenzene	3.91

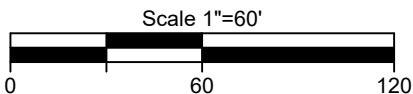
SAMPLE ID:	SV-8
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
VOLATILE ORGANICS IN AIR	
Dichlorodifluoromethane	5.49
Acetone	46.6
Carbon disulfide	3.74
2-Butanone	7.76
Chloroform	2.18
n-Hexane	3.45
1,1,1-Trichloroethane	57.3
Benzene	2.12
Carbon tetrachloride	8.55
Cyclohexane	1.81
Trichloroethene	4.15
2,2,4-Trimethylpentane	2.64
Heptane	3.32
Toluene	14.2
2-Hexanone	4.96
Tetrachloroethene	834
Ethylbenzene	1.88
p/m-Xylene	8.86
o-Xylene	3.64
1,2,4-Trimethylbenzene	9.54
1,3,5-Trimethylbenzene	2.5

SAMPLE ID:	SV-9
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	18.8
Acetone	24.5
Trichlorofluoromethane	9.89
Isopropanol	1.31
Tertiary butyl Alcohol	2.79
Methylene chloride	1.98
Carbon disulfide	4.27
2-Butanone	2.92
Chloroform	4.12
1,2-Dichloroethane	2.15
n-Hexane	9.83
1,1,1-Trichloroethane	14.9
Benzene	9.17
Carbon tetrachloride	17.6
Cyclohexane	2.29
2,2,4-Trimethylpentane	29.5
Heptane	5.49
Toluene	37.7
Tetrachloroethene	62.9
Ethylbenzene	4.43
p/m-Xylene	18.3
o-Xylene	7.73
4-Ethyltoluene	1.56
1,2,4-Trimethylbenzene	10.6
1,3,5-Trimethylbenzene	3.43

SAMPLE ID:	SV-10
SAMPLE MATRIX:	SOIL_VAPOR
ANALYTE	Conc (ug/m3) Q
Dichlorodifluoromethane	1.73
Chloromethane	0.467
Ethanol	72.4
Acetone	89.3
Trichlorofluoromethane	2.51
Isopropanol	27.3
Tertiary butyl Alcohol	3.79
Carbon disulfide	4.55
2-Butanone	22.2
Chloroform	0.991
Tetrahydrofuran	1.76
n-Hexane	270
Benzene	4.82
Cyclohexane	4.06
2,2,4-Trimethylpentane	14.5
Heptane	24.3
4-Methyl-2-pentanone	2.93
Toluene	164
2-Hexanone	8.24
Tetrachloroethene	28.1
Ethylbenzene	3.67
p/m-Xylene	11.3
o-Xylene	5.04
4-Ethyltoluene	1.36
1,2,4-Trimethylbenzene	9
1,3,5-Trimethylbenzene	2.11

ANALYTE	CAS	NY-SSC-A (ug/m3)	NY-SSC-B (ug/m3)
VOLATILE ORGANICS IN AIR			
Carbon tetrachloride	56-23-5	6	
Trichloroethene	79-01-6	6	
Tetrachloroethene	127-18-4		100

Concentration Exceed NYSDOH Sub-Slab Vapor Matrices Criteria
NY-SSC-A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.



NOTE:
THIS PLAN IS FOR LOCATING BORING ONLY.
OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

LEGEND:

- - PROPERTY LINE
- ▲ SV-1 - SOIL VAPOR SAMPLE NUMBER & APPROX. LOCATION
- AA-1 - AMBIENT AIR SAMPLE NUMBER & APPROX. LOCATION

NYS Education Law
Unauthorized alterations or additions to this plan are a violation of section 7209 (2) of the New York State Education Law. Copies of this map not having the seal of the engineer shall not be valid.

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REFERENCE

AERIAL MAP TAKEN FROM BING MAPS, DATED 2020.

project:

70 WESTCHESTER AVENUE
WHITE PLAINS, WESTCHESTER COUNTY, NY

job no: 11444
drawing no:

SOIL VAPOR SAMPLE LOCATION
AND CONCENTRATION PLAN

title:

SOILS / FOUNDATIONS
SITE DESIGN
ENVIRONMENTAL

SESI
CONSULTING
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dwg by: aas
chk by: SSG
scale: AS NOTED
date: 10/30/2020

FIG-4.5